



# Public Workshop

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## Proposed Amendments to the Consumer Products Regulation

April 13, 2010



*California Environmental Protection Agency*

**Air Resources Board**

# Overview

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- Background
- Proposed Amendments
  - New and modified definitions
  - VOC limit proposals
  - Other regulatory proposals
  - Concurrent evaluations
- Ongoing Work
- Timeline





# Background

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- California Clean Air Act requires ARB to regulate consumer products
  - Achieve the maximum feasible reduction in volatile organic compounds from consumer products
  - Regulations must be technologically and commercially feasible
  - Must not eliminate a product form
- Assembly Bill 32 calls for reductions in greenhouse gases

# State Implementation Plan (SIP or State Strategy)

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- 2007 SIP commitment for consumer products is a 30-40 tpd VOC reduction

Consumer Products Rulemaking	VOC Reductions (tons per day)
June 2008 Amendments	4.5
September 2009 Amendments	14.7
2010 Amendments	5 – 8
Additional Reductions from 2006 Survey Product Categories	5.8 – 12.8
<b>Totals Reductions by January 1, 2014</b>	<b>30 – 40</b>



# **Proposed Amendments to the Consumer Products Regulation**







# Technological Basis

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- 2006 Consumer Products Survey
  - Data grown to 2010
  - Adjusted for market coverage
  - Reductions grown to effective date
- 2009 Survey for Spot Removers used at dry cleaning operations



# Proposed Amendments

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- New and Modified Definitions
- Volatile Organic Compound (VOC) Limits
- Other Regulatory Proposals
  - ❑ Preclude use of global warming compounds with values above 150 in 7 categories
  - ❑ Prohibitions on use of methylene chloride, perchloroethylene, and trichloroethylene in 4 categories
  - ❑ Special reporting requirement for cleaning products
  - ❑ Method 310 amendments



# **Proposed New or Modified Definitions**



# Proposed New and Modified Definitions

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- Automotive Wax/Polish/Sealant/Glaze
- Dry Cleaning Fluid
- Existing Product
- General Purpose Cleaner
- General Purpose Degreaser
- Lawn and Garden Insecticide
- Laundry Prewash
- Lubricant
- Metal Polish/Cleanser
- Multi-Purpose Solvent
- Oven or Grill Cleaner
- Sealant or Caulking Compound
- Silicone-based Multi-purpose Lubricant
- Special Purpose Lubricant\*
- Spot Remover
- Wasp and Hornet Insecticide

\* New Definition



# Proposed Definitions: Further Discussion

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- Automotive Wax, Polish, Sealant or Glaze
  - Reorganized to clarify subcategories of category
- Dry Cleaning Fluid
  - Limited to solvent used in dry cleaning machines
- Lubricant
  - Proposing to sunset exemption for products sold to manufacturing facilities, labeled “not for retail sale”
- Oven Cleaner
  - Modified to include additional products



# Proposed Definitions: Further Discussion(cont.)

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- Silicone-based Multi-purpose Lubricant
  - Modification would include single or special purpose silicone lubricants
- Special Purpose Lubricant
  - Proposed category would include all lubricants that are not Multi-purpose Lubricants
- Spot Remover
  - Modified to include spotters used at dry cleaning operations

# **Volatile Organic Compound Limit Proposals**





# Evaluation Process

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- Range of VOC content reported
- Product forms
- Technology transfer
  - Air district rules
- Recent research
- Non-VOC substitutions
- Dialogue with stakeholders
- Patent and literature searches

# Proposed Categories and VOC Limits

Product Category	Proposed VOC Limit (wt%)	Effective Date	VOC Reduction (tpd)
<b>Cleaners and Degreasers</b>			
General Purpose Cleaner: non-aerosol	0.5	12/31/12	3.73
General Purpose Degreaser: non-aerosol	0.5	12/31/12	0.45
Glass Cleaner: non-aerosol	1.0	12/31/12	1.98
Oven or Grill Cleaner:			
aerosol (Grill Cleaner only)	8	12/31/12	> 0
non-aerosol	4	12/31/12	-0.12
<b>Laundry Care</b>			
Spot Remover (Dry Clean Only):			
aerosol	15	12/31/12	> 0
non-aerosol	3	12/31/12	0.17

# Proposed Categories and VOC Limits (cont.)

Product Category	Proposed VOC Limit (wt%)	Effective Date	VOC Reduction (tpd)
<b>Lubricants</b>			
Silicone-based Lubricant	40	12/31/12	0.12
Special Purpose Lubricant:			
aerosol	25	12/31/12	0.14
non-aerosol	3	12/31/12	0.14
<b>Personal Care Products</b>			
Heavy-duty Hand Cleaner or Soap	1	12/31/12	0.52
<b>Pesticides</b>			
Flying Bug Insecticide: aerosol	15	12/31/12	0.18
Wasp or Hornet Insecticide: aerosol	5	12/31/12	0.23

# Proposed Categories and VOC Limits (cont.)

Product Category	Proposed VOC Limit (wt%)	Effective Date	VOC Reduction (tpd)
<b>Vehicle &amp; Marine Vessel Aftermarket Products</b>			
Automotive Rubbing or Polishing Compound: non-aerosol	3	12/31/12	0.22
Automotive Wax/Polish/Sealant/Glaze	3	12/31/12	0.23
<b>Waxes &amp; Polishes</b>			
Furniture Maintenance Product: aerosol	10	12/31/12	0.50
Metal Polish or Cleanser: aerosol	15	12/31/12	0.07
non-aerosol	0.5	12/31/12	0.21

- Total VOC Reduction is 8.8 tpd



# Oven or Grill Cleaner Proposal

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- Incorporating grill cleaning products into Oven Cleaner Category
  - Limit of 8 percent for aerosol grill cleaners would become effective 12/31/12
- Oven Cleaner non-aerosol
  - Current limit of 1 percent by weight
  - Based on reported caustic technologies
- Newer products introduced to provide alternative to caustic products



# Oven or Grill Cleaner Proposal (cont.)

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- To accommodate newer technology proposing to raise the VOC limit to 4 percent by weight for non-aerosol products
  - Net shortfall of ~0.1 tons per day



# Spot Remover Proposal

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- Incorporating spotters used for dry clean only fabrics
  - Primarily those used at dry cleaning operations
- To accommodate the necessary time for these products to reformulate, proposing to extend effective date of 12/31/10 for two years until 12/31/12
- Proposal would delay ~0.25 tpd VOC reduction for 2 years



# Other Regulatory Proposals







# Other Regulatory Proposals

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- Preclude use of global warming compounds with values above 150 in:
  - ❑ Flying Bug Insecticide
  - ❑ Furniture Maintenance Product
  - ❑ Metal Polish or Cleanser
  - ❑ Spot Remover
  - ❑ Silicone-based Lubricant
  - ❑ Special-purpose Lubricant
  - ❑ Wasp or Hornet Insecticide
- Based on Second Assessment Report



## Other Regulatory Proposals (cont.)

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- Prohibit use of methylene chloride, perchloroethylene, and trichloroethylene in:
  - ❑ Spot Remover for Dry Clean Only
  - ❑ Silicone-based Lubricant
  - ❑ Special-purpose Lubricant
  - ❑ Metal Polish or Cleanser
- Consolidate toxics provisions into a table



# **LVP-VOC Glycol Ethers Assessment**

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- Comments on potential toxicity of LVP-VOC glycol ethers in cleaning products
- Use of LVP-VOC glycol ethers limited
- Reformulation options exist that don't rely on these compounds
- Conduct exposure assessment
- Compare exposures to RELs
- Evaluate need for mitigation



# **Proposed Amendments to ARB Test Method 310**

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- Add procedures for determining VOC content of Fabric Softener – single Use Dryer Product
- Add procedures for determining aromatic compound content of Paint Thinner and Multi-purpose Solvent



# Concurrent Evaluations





# Concurrent Evaluations

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- Evaluating use of alkylphenol ethoxylates to determine if mitigation measures are necessary
- General labeling requirements





# Alkylphenol Ethoxylates

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- Nonionic surfactants used in various cleaning products
- Research has shown that degradation products of these surfactants cause acute and/or chronic toxicity to aquatic species
  - Developmental and reproductive toxicants
- Consulting with Water Board to determine if mitigation measures are necessary to protect California's receiving waters



# Consumer Products Labeling

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- Evaluating the feasibility of VOC content labeling requirements and other labeling concepts
- Background
  - VOC content labeling proposed for Multi-purpose Solvents and Paint Thinners in the August 7, 2009 Initial Statement of Reasons
  - In September 2009 Board Hearing Resolution, Attachment B, deferred to a future rulemaking to assess the feasibility of a more general proposal



# Consumer Products Labeling (cont.)

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- Goals include:
  - ❑ Enhance the enforceability of the regulation
  - ❑ Increase compliance with VOC Limits
  - ❑ Provide consumers and retailers with more information
- Factors under consideration include:
  - ❑ Evaluating effectiveness of options (e.g. VOC Content; CARB Compliant; others)
  - ❑ Which categories to include in the proposal
  - ❑ Cost effectiveness



# Ongoing Work



# Paint Remover or Stripper Assessment

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- Evaluation of Paint Remover or Stripper products is ongoing
  - Feasibility of VOC and toxic reductions
- Alternatives exist, but have potential adverse impacts
- Development of Airborne Toxic Control Measure (ATCM) may be better approach
  - Longer term project



# Update on 2009 Amendments

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- Considering second 15-day notice
- Clarify exemption for Industrial Maintenance Coatings thinners
- Final Statement of Reasons completion in summer



# Timeline

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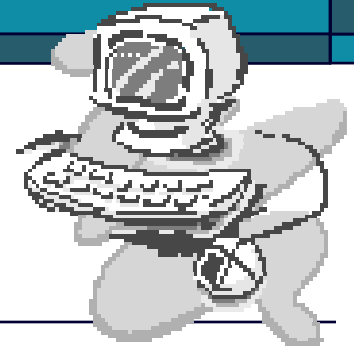
- Requesting written comments: April 27
- Second public workshop: early summer
- Third public workshop: late summer (if needed)
- Release staff report: October 1, 2010
- Board hearing in Sacramento:  
November 18-19, 2010

# Contact Information

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# Websites



- Air Resources Board website: <http://www.arb.ca.gov>
- Consumer Products website:  
<http://www.arb.ca.gov/consprod/consprod.htm>
- Consumer Products Regulations website:  
<http://www.arb.ca.gov/consprod/regs/regs.htm>
- Consumer Products List Server website:  
<http://www.arb.ca.gov/listserv/listserv.php>
- 2010 Consumer Products Regulation Amendments website:  
<http://www.arb.ca.gov/consprod/regact/2010ra/2010ra.htm>
- 2006 Survey website:  
<http://www.arb.ca.gov/consprod/regact/2006surv/2006surv.htm>
- Climate Change Program website: <http://www.arb.ca.gov/cc/cc.htm>